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(FILE 'USPAT' ENTERED AT 13:30:29 ON 04 AUG 1999)

L1 1859 S MOVING IMAGE
L2 37321 S VOICE
L3 2610 S STILL IMAGE
L4 6078 S VOICE (5A) (CONTROL OR CONTROLS OR CONTROLLED)
L5 6 S L1 AND L2 AND L3 AND L4
SET HIGH OFF
L6 6 S L5 AND L5
SET HIGH ON
L7 6 S L6 AND L1 AND L3 AND L4
L8 5083 S VOICE (3A) CONTROL?
L9 53 S L8 (5A) IMAGE
L10 864 S 704/270-278/CCLST
L11 3 S L9 AND L10
L12 69873 S CAMERA

=> s 19 and 112

L13 21 L9 AND L12

=> d 1-

1. 5,903,734, May 11, 1999, Multimedia information communication apparatus which stores received information in an encoded state; Makoto Chida, 709/232, 231 [IMAGE AVAILABLE]
2. 5,893,037, Apr. 6, 1999, Combined electronic/silver-halide image capture system with cellular transmission capability; Samuel Reece, et al., 455/556; 348/14, 64; 455/557 [IMAGE AVAILABLE]
3. 5,867,209, Feb. 2, 1999, Television telephone which displays image data having a first precision degree and image data having a second precision degree on a respective display region of a display screen; Yuichiro Irie, et al., 348/19, 18; 379/93.17 [IMAGE AVAILABLE]
4. 5,821,984, Oct. 13, 1998, Communication conference system with storage of conference information including proceedings data; Kan Ito, et al., 348/15; 370/260, 261; 379/93.21, 102.02, 102.04, 202 [IMAGE AVAILABLE]
5. 5,796,435, Aug. 18, 1998, Image coding system with adaptive spatial frequency and quantization step and method thereof; Itaru Nonomura, et al., 348/405, 416 [IMAGE AVAILABLE]
6. 5,745,711, Apr. 28, 1998, Display control method and apparatus for an electronic conference; Chiho Kitahara, et al., 345/330, 332 [IMAGE AVAILABLE]
7. 5,737,491, Apr. 7, 1998, Electronic imaging system capable of image capture, local wireless transmission and voice recognition; James D. Allen, et al., 704/270; 348/211; 396/283; 704/272, 275 [IMAGE AVAILABLE]
8. 5,724,579, Mar. 3, 1998, Subordinate image processing apparatus; Takeshi Suzuki, 707/104; 358/403, 453; 382/282, 305 [IMAGE AVAILABLE]
9. 5,712,649, Jan. 27, 1998, Head-mounted image display; Kenji Tosaki,

10. 5,619,252, Apr. 8, 1997, Video telephone system and method for transmitting and receiving signals when there is a failure in the system; Misao Nakano, 348/14, 17; 370/216; 379/93.17, 279 [IMAGE AVAILABLE]

11. 5,587,735, Dec. 24, 1996, Video telephone; Kiyoshi Ishida, et al., 348/14, 16, 17; 379/100.15 [IMAGE AVAILABLE]

12. 5,485,897, Jan. 23, 1996, Elevator display system using composite images to display car position; Kimio Matsumoto, et al., 187/399, 395, 397 [IMAGE AVAILABLE]

13. 5,473,366, Dec. 5, 1995, Television-telephone apparatus having a message-keeping function and an automatic response transmission function; Eiji Imaeda, et al., 348/14, 17, 19; 379/88.13 [IMAGE AVAILABLE]

14. 5,418,560, May 23, 1995, Voice and image data communication apparatus; Hitoshi Yasuda, 348/14; 379/93.23 [IMAGE AVAILABLE]

15. 5,400,068, Mar. 21, 1995, Video telephone; Kiyoshi Ishida, et al., 348/14, 13, 16; 379/100.15 [IMAGE AVAILABLE]

16. 5,392,158, Feb. 21, 1995, Head-mounted image display; Kenji Tosaki, 359/633; 348/42; 359/630 [IMAGE AVAILABLE]

17. 5,373,316, Dec. 13, 1994, Video conference device with facsimile function; Iwao Ishinabe, et al., 348/15; 379/93.21, 100.01 [IMAGE AVAILABLE]

18. 5,325,194, Jun. 28, 1994, Multipoint video conferencing system; Hiroaki Natori, et al., 348/15, 159 [IMAGE AVAILABLE]

19. 5,261,404, Nov. 16, 1993, Three-dimensional mammal anatomy imaging system and method; Peter R. Mick, et al., 600/425; 128/916; 600/160 [IMAGE AVAILABLE]

20. 5,228,112, Jul. 13, 1993, Inspection control system and method; Jerome H. Lemelson, 704/275; 348/441; 364/281.3, DIG.1; 381/110; 382/100, 128; 704/270 [IMAGE AVAILABLE]

21. 5,111,103, May 5, 1992, Plural unit monitor; Denyse DuBrucq, 313/2.1, 3 [IMAGE AVAILABLE]

s voice (3a) control?

37606 VOICE
1394753 CONTROL?
L1 5121 VOICE (3A) CONTROL?

=> s l1 (5a) image

285545 IMAGE
L2 53 L1 (5A) IMAGE

=> d 13 14 16 17 24 42 43

13. 5,745,711, Apr. 28, 1998, Display control method and apparatus for an electronic conference; Chiho Kitahara, et al., 345/330, 332 [IMAGE AVAILABLE]

14. 5,737,491, Apr. 7, 1998, Electronic imaging system capable of image capture, local wireless transmission and voice recognition; James D. Allen, et al., 704/270; 348/211; 396/283; 704/272, 275 [IMAGE AVAILABLE]

16. 5,717,744, Feb. 10, 1998, Data communicating apparatus having user notification capability and method; Takehiro Yoshida, et al., 358/434, 438; 379/100.06 [IMAGE AVAILABLE]

17. 5,717,498, Feb. 10, 1998, Facsimile machine for receiving, storing, and reproducing associated image data and voice data; Shingo Itoh, 358/434, 444, 468; 379/100.01 [IMAGE AVAILABLE]

24. 5,538,255, Jul. 23, 1996, Remote controlled multiplayer video game; Bruce J. Barker, 463/41, 47 [IMAGE AVAILABLE]

42. 5,301,228, Apr. 5, 1994, Communication device with a detachable recording medium; Yoshihiro Kakigi, et al., 379/100.02, 68, 73, 908 [IMAGE AVAILABLE]

43. 5,297,146, Mar. 22, 1994, Communication terminal apparatus and its control method; Fukushige Ogawa, 370/522, 271; 379/88.13, 93.17, 100.12, 206 [IMAGE AVAILABLE]

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US PAT NO: 5,923,679 [IMAGE AVAILABLE]

L2: 1 of 53

SUMMARY:

BSUM(7)

Accordingly, . . . that can improve error detection and error correction capability in the transmission of extremely important information or signals (for example, **voice, image, control** information, etc.) without lowering the transmission efficiency.

US PAT NO: 5,903,734 [IMAGE AVAILABLE]

L2: 2 of 53

DETDESC:

DETD(7)

A . . . 46 connects the apparatus to a communication network, such as an ISDN or the like. A multiplexing/separation unit 48 multiplexes **image** information, **voice** information and **control** information to be transmitted, in accordance with the H. 221 format, supplies the network interface unit 46 with the resultant. . .

US PAT NO: 5,893,037 [IMAGE AVAILABLE]

L2: 3 of 53

CLAIMS:

CLMS(13)

13. . . .

for supplying a voice command signal to the control means, wherein the control means controls the operation of the electronic/silver-halide **image** capture system based on the **voice** command signal and **control** means for controlling the operation of the electronic image sensor, the exposure means, the processing means, the memory means, and. . .

US PAT NO: 5,867,209 [IMAGE AVAILABLE]

L2: 4 of 53

DETDESC:

DETD(40)

It . . . transmission speed of 14,400 bps (bit per second) on the analog public telephone line (PSTN). As the process unit, the **image** data, the **voice** data, or the **control** data are constituted as a packet data structure. These packet data are transmitted in the time divisional multiplex mode. The. . .

DETDESC:

DETD(42)

The . . . with reference to FIG. 6a and FIG. 6b. In this case, as the transmit data and the receive data, the **image** data, the **voice** data, and the **control** data are constituted as a data packet structure. These data packets are transmitted in the time divisional multiplex manner. Since. . .

US PAT NO: 5,847,840 [IMAGE AVAILABLE]

L2: 5 of 53

DETDESC:

DETD(12)

The transmission memory 12 receives the above **image** information, **voice** information, **control** information, boundary information, and the like and generates them in accordance with the order based on a transmitting format as. . .

US PAT NO: 5,838,921 [IMAGE AVAILABLE]

L2: 6 of 53

SUMMARY:

BSUM(5)

Communication . . . information. Two types of information flow occurs on a network: user information and control information. User information includes text and **image** data as well as **voice**. **Control** information consists of information to establish a network connection as well as maintain a quality of service for that established. . .

SUMMARY:

BSUM(18)

A . . . data, such as still picture data and computer data, other than the motion picture data. A controller 25 controls the **image** selection **control** unit 22, the **voice** mixer 23, and the data selection control unit 24.

DETDESC:

DETD(72)

The . . . by the MUX/DMUX control unit 21. The images, the voices, and the other data thus demultiplexed are distributed to an **image** selection **control** unit 22, a **voice** mixer 23, and a data selection control unit 24, respectively. Under the control of a controller 25, the **image** selection **control** unit 22, the **voice** mixer 23, and the data selection control unit 24 perform switching between data to be transmitted, and the voice mixer. . .

US PAT NO: 5,812,224 [IMAGE AVAILABLE]

L2: 8 of 53

DETDESC:

DETD(3)

As . . . display apparatus body 11, a pair of speakers 5 for outputting predetermined voice information, and a control unit 14 for **controlling** output **voice/image** information. Only one of the support members 2 and only one of the speakers 5 are shown in FIGS. 1. .

DETDESC:

DETD(8)

The drive circuit 14a is connected to a cable 15 extending from a signal generating unit (not shown), which is **controlled** to generate predetermined **voice** and **image** signals.

US PAT NO: 5,808,987 [IMAGE AVAILABLE]

L2: 9 of 53

DETDESC:

DETD(79)

The voice data is outputted to a speaker 123 by **voice** output **control** means 124, and the **image** data is outputted to a liquid crystal display 126 by image output control means 127.

US PAT NO: 5,802,150 [IMAGE AVAILABLE]

L2: 10 of 53

SUMMARY:

BSUM(3)

The . . . controlling communication functions, and more specifically to controller boards associated with personal and other desktop computers that are suitable for **controlling** data, **voice**, **image** and multimedia communication functions.

US PAT NO: 5,796,435 [IMAGE AVAILABLE]

L2: 11 of 53

DETDESC:

DETD(4)

In . . . 30d connected via the communication network 314 will be explained. In the TV conference device 30, data transfer via the **image** CODEC 301, the display **controller** 302, the **voice** CODEC 303, the communication controller 305, the keyboard 306, the mouse 307, the memory means 308, and the bus 309. . .

US PAT NO: 5,758,185 [IMAGE AVAILABLE]

L2: 12 of 53

DETDESC:

DETD(3)

This . . . apparatus comprises a game soft storing medium, such as CD-ROM, etc., a CPU of 32 bits, a control unit for transfer-**control** of **image** and **voice** data and for interfacing each apparatus, an image data extension and transformation unit, an image data output unit, a voice. . .

CLAIMS:

CLMS(1)

What . . .
source of program signals, said peripheral equipment being selected from a group consisting of a controller, a control unit for transfer-**control** of **image** and **voice** data, an interfacing apparatus, **image** data extension and transformation units, an image data output unit, a voice data output unit, a video encoder unit, a. . .

US PAT NO: 5,745,711 [IMAGE AVAILABLE]

L2: 13 of 53

DETDESC:

DETD(87)

The conference management module 921 receives the conference management data packet (969) and discriminates whether it is the **image** from which station or the **voice** sound and generate **control** commands to the **image** decoding module 923 and audio decoding module 926 so as to decode each packet for every station (991, 993).

CLAIMS:

CLMS(9)

9. . . .
function such that when the window obtains input focus through an operation of an input device, movement of the moving **image** and/or volume of the **voice** sounds are **controlled** in accordance with whether or not the window which has input focus is one of the windows used in the. . .

US PAT NO: 5,737,491 [IMAGE AVAILABLE]

L2: 14 of 53

ABSTRACT:

A . . . files, the digital image files having associated information for controlling a remote image fulfillment server; a voice recorder for digitizing **voice** commands relating to **control** of the **image** fulfillment server; and a transmitter for transmitting the digital image file to the image fulfillment server. Either the camera or the fulfillment server includes a voice recognition module responsive to the

digitized **voice** commands for producing **control** signals for the **image** fulfillment server. The image fulfillment server includes a receiver for receiving the digital image file and control signals; a memory. . .

SUMMARY:

BSUM(6)

The . . . files, the digital image files having associated information for controlling a remote image fulfillment server; a voice recorder for digitizing **voice** commands relating to **control** of the **image** fulfillment server; and a transceiver for transmitting the digital image file to the image fulfillment server. Either the camera or the fulfillment server includes a voice recognition module responsive to the digitized **voice** commands for producing **control** signals for the **image** fulfillment server. The image fulfillment server includes a transceiver for receiving the digital image file and control signals; a memory. . .

DETDESC:

DETD(3)

The voice recognition module 30 recognizes **voice** commands and produces **control** signals for use by an **image** fulfillment server 34 as described below. The digital camera 10 also includes a transceiver 32 for transmitting the digital images,. . .

CLAIMS:

CLMS(1)

We . . .

- files, the digital image files having associated information for controlling a remote image fulfillment server;
- iii) a voice recorder for digitizing **voice** commands relating to **control** of the **image** fulfillment server; and
- iv) a transmitter for transmitting the digital image file to the image fulfillment server;
- b) a voice recognition module responsive to the digitized **voice** commands for producing **control** signals for the **image** fulfillment server; and
- c) an image fulfillment server, having:
 - i) a receiver for receiving the digital image file and control signals;
 - ii). . .

US PAT NO: 5,724,579 [IMAGE AVAILABLE]

L2: 15 of 53

SUMMARY:

BSUM(3)

Digital still cameras are capable of recording, as files, **image** data, **voice** data, **control** data, etc. on such recording media as IC memory cards, magnetic media (hard disks or floppy disks), opto-magnetic media, etc.

DETDESC:

DETD(9)

In the digital still camera, in which **image** data, **voice** data, **control** data, etc. are recorded as files on a recording medium, such as a memory card, a magnetic medium (a hard. . .

CLAIMS:

CLMS (30)

30. . . .
circuit and voice generation circuit,
where said control unit discriminates signals received from said
receiving circuit, determines a kind of the **image** data, and
controls said **voice** generation circuit so that said voice
generation circuit generates a voice message output to said speaker
circuit in accordance with. . .

US PAT NO: 5,717,498 [IMAGE AVAILABLE]

L2: 17 of 53

SUMMARY:

BSUM (13)

According . . . line, voice data representing voices and image data
representing images; data storage means for storing the voice data and
the **image** data; storage control means for **controlling**, when
voice data and **image** data are both transmitted during a single
reception operation, the data storage means to store the voice data and
image. . .

SUMMARY:

BSUM (14)

According . . . line, voice data representing voices and image data
representing images; data storage means for storing the voice data and
the **image** data; storage control means for **controlling**, when
voice data and **image** data are both transmitted during a single
reception operation, the data storage means to store the voice data and
image. . .

CLAIMS:

CLMS (1)

What . . .
for respectively reproducing the voice data and the image data stored in
the data storage means; and
reproduction control means for **controlling**, when **voice** data and
image data are both transmitted during a single reception operation
and are stored in the data storage means in correspondence with. . .

CLAIMS:

CLMS (2)

2. A facsimile machine as claimed in claim 1, further comprising storage
control means for **controlling**, when **voice** data and **image** data
are both transmitted during a single reception operation, the data
storage means to store the voice data and image. . .

CLAIMS:

CLMS (8)

8. . . . voice data and image data which are stored in the data
storage means in correspondence with each other, the reproduction
control means actuating the **voice** reproducing means and the
image reproducing means so that either one of the voice reproducing

means and the image reproducing means is actuated first.

CLAIMS:

CLMS(10)

10. . . .
telephone line, voice data representing voices and image data
representing images;
data storage means for storing the voice data and the **image** data;
storage control means for **controlling**, when **voice** data and
image data are both transmitted during a single reception
operation, the data storage means to store the voice data and image. .
. voice data and image data which are stored in the data storage means
in correspondence with each other, the reproduction **control** means
actuating the **voice** reproducing means and the **image** reproducing
means so that either one of the voice reproducing means and the image
reproducing means is actuated first.

CLAIMS:

CLMS(13)

13. . . .
image data representing images;
a data storage unit that stores the voice data and the image data;
a storage control unit that **controls**, when **voice** data and
image data are both transmitted during a single reception
operation, the data storage unit to store the voice data and image. .
. voice data and image data which are stored in the data storage unit
in correspondence with each other, the reproduction **control** unit
actuating the **voice** reproducing unit and the **image** reproducing
unit so that either one of the voice reproducing unit and the image
reproducing unit is actuated first.

US PAT NO: 5,712,649 [IMAGE AVAILABLE] L2: 18 of 53

DETDESC:

DETD(4)

FIG. . . . the same manner that glasses are worn. Housing 2 has on
one side an input terminal 4 which receives an **image** signal and a
voice signal or a **control** signal for display 1, and on the other
side a power source terminal 5. The user attaches a television tuner. .
.

US PAT NO: 5,636,839 [IMAGE AVAILABLE] L2: 19 of 53

DETDESC:

DETD(14)

As . . . laser beam projector 431 and a lamp 441. The foregoing units
are connected to the host computer 100 through an **image** control unit
410, a sound/**voice control** unit 420, a laser beam control unit
430 and a lamp switching unit 440. The printing apparatus 23 disposed in.
.

US PAT NO: 5,619,252 [IMAGE AVAILABLE] L2: 20 of 53

DETDESC:

DETD(11)

Normal . . . input from image pickup equipment 62, for example, a

camera, are input to the CODEC equipment 11 by the CODEC controller 12. The **voice** signal and **image** signal are encoded in the CODEC controller 12 and are output to line control equipment 41. A signal obtained by. . .

US PAT NO: 5,611,018 [IMAGE AVAILABLE]

L2: 21 of 53

DETDESC:

DETD(223)

A . . . ring memory 320 and read addresses of sound data from the ring memory 320. The time difference between a reproduced **image** and reproduced **voice** is presumed, to **control** the compression rate used for the compression processing performed by the voice speed converter 318.

US PAT NO: 5,587,735 [IMAGE AVAILABLE]

L2: 22 of 53

DETDESC:

DETD(29)

The . . . input/output control of the key panel unit 23 and the hardware control such as setting and maintaining the three-system multiplex-separation **control** of **voice**, **image** and data as well as the man-machine interface control such as message output to the display screen.

DETDESC:

DETD(59)

In FIG. 7, reference numeral 60 designates a video telephone which comprises the microprocessor 24c, the signal-multiplex-separation control circuit 24a, the **image** CODEC 22, the **voice** communication **control** circuit 24d and the ISDN-user-network interface control circuit 24b. Further, 66 designates an external video tape recorder, and 67, an. . .

CLAIMS:

CLMS(1)

What . . .

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS(3)

3. . . .

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS (4)

4.

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS (5)

5.

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . . of user data between said multiplexor-separator and said data terminal;

(s) a base section incorporating said communication controller, said multiplexor-separator, said **image** CODEC, said **voice** communication **controller**, said speaker, said microphone, said power supply unit, said key input unit, said image input terminal, said image output terminal,. . .

CLAIMS:

CLMS (7)

7.

signal to be coded;

(e) a display for displaying an image represented by an Image signal which is decoded by said **image** CODEC;

(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS (8)

8.

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS (9)

9.

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

CLAIMS:

CLMS (11)

11. . . .

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . . of user data between said multiplexor-separator and said facsimile terminal;

(s) a base section incorporating said communication controller, said multiplexor-separator, said **image** CODEC, said **voice** communication **controller**, said speaker, said microphone, said power supply unit, said key input unit, said image input terminal, said image output terminal, . . .

CLAIMS:

CLMS (13)

13. . . .

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into voice signal and for coding an input voice signal into voice data. . .

US PAT NO: 5,565,992 [IMAGE AVAILABLE]

L2: 23 of 53

DETDESC:

DETD(12)

The transmission memory 12 receives the above **image** information, **voice** information, **control** information, boundary information, and the like and generates them in accordance with the order based on a transmitting format as. . .

US PAT NO: 5,538,255 [IMAGE AVAILABLE]

L2: 24 of 53

CLAIMS:

CLMS (1)

What . . .

controller for generating in response to said plurality of local and remote image control commands, a local sequence of game **image** frames,

a **voice** communication **controller** for transmitting a speech signal representative of a local player's voice to allow the local player to speak with a. . .

CLAIMS:

CLMS (4)

4. . . . means for connecting to a first telephone line for transmitting said local image control commands and for receiving said remote **image** control commands, and wherein said **voice** communication **controller** is connected to a second telephone line for transmitting a speech signal representative of the local player's voice to allow. . .

CLAIMS:

5. . . .

connection means for connection to a second telephone line for receiving from said remote game controller said plurality of remote **image control** commands; and
 said **voice** communication **controller** is connected to a third telephone line for transmitting a speech signal representative of the local player's voice to allow. . .

US PAT NO: 5,532,840 [IMAGE AVAILABLE]

L2: 25 of 53

DETDESC:

DETD(31)

Next, the input/output **control** operation of the **voice** data and the **image** data is described referring to FIGS. 9 to 10. First, the input/output control operation of the image data is described.

US PAT NO: 5,530,873 [IMAGE AVAILABLE]

L2: 26 of 53

DETDESC:

DETD(3)

This . . . apparatus comprises a game soft storing medium, such as CD-ROM, etc., a CPU of 32 bits, a control unit for transfer-**control** of **image** and **voice** data and for interfacing each apparatus, an image data extension and transformation unit, an image data output unit, a voice. . .

US PAT NO: 5,521,716 [IMAGE AVAILABLE]

L2: 27 of 53

DETDESC:

DETD(15)

The . . . voice messages and image digital data representing image messages, and is a part of the RAM 142C of the system **control** unit 142. The **voice/image** memory 146 is controlled based on a unit of four kilobytes by the CPU 142A when being accessed for storage. . .

US PAT NO: 5,499,922 [IMAGE AVAILABLE]

L2: 28 of 53

CLAIMS:

CLMS(4)

4. . . .

data operating kind and operating timing according to the header information, and outputting commands in predetermined timing for synchronizing the **voice controller** and the **image** display means with the reproduced electronic sound.

US PAT NO: 5,485,897 [IMAGE AVAILABLE]

L2: 29 of 53

DETDESC:

DETD(102)

With . . . output unit 208 for outputting voice from the control center 242, a voice input unit 210 for sending the passenger's **voice** to the **control** center 242 and an **image** pickup unit 209 for sending an inside image of the car to the center 242 when required.

DETDESC:

DETD(107)

The control circuit 217 feeds the emergency signal to an emergency **image-voice** change-over **control** circuit 216 serving as the above-mentioned change-over unit 206 for the circuit 216 to control the operation of the image-voice. . .

DETDESC:

DETD(108)

In . . . actuating the input unit 214 and the transmission unit 215 into operation for the input unit 214 to accept an **image** signal and **voice** signal from the **control** center 242. The **image** pickup unit 209 and the voice input unit 210 delivers an **image** signal and **voice** signal to the **control** center 242 via the transmission unit 215.

DETDESC:

DETD(113)

The . . . an elevator control state input unit 228 to an elevator control state display unit 223 and also to an emergency **image-voice** transmission **control** circuit 227 at the same time. Inside the center 242, the display unit 223 shows the operating state of the. . .

US PAT NO: 5,473,366 [IMAGE AVAILABLE]

L2: 30 of 53

DETDESC:

DETD(64)

Reference . . . circuit 642 into a H.221 format to supply them to the circuit interface 646. Further, the separation/multiplexing circuit 648 separates **image**, **voice** and **control** signals from information supplied from the circuit interface 646 to supply the signals to the image decoding circuit 624, the. . .

DETDESC:

DETD(150)

Reference . . . circuit 1042 into a H.221 format to supply them to the circuit interface 1046. Further, the separation/multiplexing circuit 1048 separates **image**, **voice** and **control** signals from information supplied from the circuit interface 1046 to supply the signals to the image decoding circuit 1024, the. . .

US PAT NO: 5,459,581 [IMAGE AVAILABLE]

L2: 31 of 53

SUMMARY:

BSUM(11)

It is yet another object of the present invention to provide an **image** communication apparatus which stores **control** information of recorded **voice** messages and prints out the control information.

US PAT NO: 5,438,428 [IMAGE AVAILABLE]

L2: 32 of 53

DETDESC:

DETD(15)

The . . . voice messages and image digital data representing image messages, and is a part of the RAM 142C of the system **control** unit 142. The **voice/image** memory 146 is controlled based on a unit of four kilobytes by the CPU 142A when being accessed for storage. . .

US PAT NO: 5,426,692 [IMAGE AVAILABLE]

L2: 33 of 53

CLAIMS:

CLMS(1)

What . . .
voice data; and
image communication means for performing communication of image data,
wherein said control means controls image communication control of said
image communication means and **voice** communication **control**
of said digital telephone unit.

US PAT NO: 5,426,518 [IMAGE AVAILABLE]

L2: 34 of 53

SUMMARY:

BSUM(11)

It is yet another object of the present invention to provide an
image communication apparatus which stores **control** information of
recorded **voice** messages and prints out the control information.

US PAT NO: 5,418,560 [IMAGE AVAILABLE]

L2: 35 of 53

DETD(9)

In . . . signal from the system control unit 11 on a transmission
frame unit basis. The reception frame is separated into the **image**
code, **voice** code, and **control** signal and supplied to the video
decode unit 6b of the video encode/decode unit 6, voice decode unit 9b
of. . .

DETD(26)

DETD(26)

In . . . reception frame is received from the communication line 14
via the line I/F unit 13 and is separated into the **image** code and the
voice code and the **control** signal of the system control unit 11
by the separating/multiplexing unit 12. The image code is decoded by the
video. . .

US PAT NO: 5,400,068 [IMAGE AVAILABLE]

L2: 36 of 53

DETD(30)

DETD(30)

The . . . input/output control of the key panel unit 23 and the
hardware control such as setting and maintaining the three-system
multiplex-separation **control** of **voice**, **image** and data as well
as the man-machine interface control such as message output to the
display screen.

DETD(30)

In FIG. 7, reference numeral 60 designates a video telephone which comprises the microprocessor 24c, the signal-multiplex-separation control circuit 24a, the **image** CODEC 22, the **voice** communication **control** circuit 24d and the ISDN-user-network interface control circuit 24b. Further, 66 designates an external video tape recorder, and 67, an. . .

CLAIMS:

CLMS(1)

What . . .
 signal to be coded;
 (e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
 (f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

CLAIMS:

CLMS(2)

2. . . .
 signal to be coded;
 (e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
 (f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

CLAIMS:

CLMS(3)

3. . . .
 signal to be coded;
 (e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
 (f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

CLAIMS:

CLMS(4)

4. . . .
 signal to be coded;
 (e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;
 (f) a **voice** communication **controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . .

CLAIMS:

CLMS(8)

8. . . .
 signal to be coded;
 (e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice communication controller** for decoding **voice** data, which are separated by said multiplexor-separator into a voice signal and for coding an input voice signal into voice. . . .

CLAIMS:

CLMS(9)

9.

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice communication controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . . .

CLAIMS:

CLMS(10)

10.

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice communication controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . . .

CLAIMS:

CLMS(11)

11.

signal to be coded;

(e) a display for displaying an image represented by an image signal which is decoded by said **image** CODEC;

(f) a **voice communication controller** for decoding **voice** data, which are separated by said multiplexor-separator, into a voice signal and for coding an input voice signal into voice. . . .

US PAT NO: 5,392,158 [IMAGE AVAILABLE]

L2: 37 of 53

DETDESC:

DETD(4)

FIG. . . . the same manner that glasses are worn. Housing 2 has on one side an input terminal 4 which receives an **image** signal and a **voice** signal or a **control** signal for display 1, and on the other side a power source terminal 5. The user attaches a television tuner. . . .

US PAT NO: 5,373,316 [IMAGE AVAILABLE]

L2: 38 of 53

CLAIMS:

CLMS(1)

What

converting a digital signal to a signal for the facsimile unit; facsimile control means for controlling said telephone network simulator;

multiplexing/demultiplexing communication **control** means for multiplexing **voice**, **image** and facsimile communication data and sending the multiplexed data to a communication network and demultiplexing multiplexed data from the communication. . . .

CLAIMS:

CLMS(2)

2. . . .

converting a digital signal to a signal for the facsimile unit;
facsimile control means for controlling said telephone network
simulator;

multiplexing/demultiplexing communication **control** means for
multiplexing **voice**, **image** and facsimile communication data into
a single multiplexed signal including said voice, image and facsimile
communication data and sending the. . .

CLAIMS:

CLMS(40)

40. . . .

converting a digital signal to a signal for the facsimile unit;
facsimile control means for controlling said telephone network
simulator;

multiplexing/demultiplexing communication **control** means for
multiplexing **voice**, **image** and facsimile communication data and
sending the multiplexed data to a communication network and
demultiplexing multiplexed data from the communication. . .

US PAT NO: 5,325,194 [IMAGE AVAILABLE] L2: 39 of 53

DETDESC:

DETD(15)

FIG. . . . line interface 44 provides an interface between the
transmission line and the CT 10. The line interface 44 separates an
image data, **control** data and **voice** data from a multiple input
signal. The image data are separated into the high speed image signal and
the low. . .

US PAT NO: 5,311,573 [IMAGE AVAILABLE] L2: 40 of 53

SUMMARY:

BSUM(11)

Another object of the present invention is to provide a communication
apparatus which includes a first controller to control **image** data
communication, and a second **controller** to control **voice**
communication, both of which control independently.

US PAT NO: 5,303,148 [IMAGE AVAILABLE] L2: 41 of 53

TITLE: Voice actuated volume **image controller** and
display controller

US PAT NO: 5,301,228 [IMAGE AVAILABLE] L2: 42 of 53

CLAIMS:

CLMS(8)

8. . . .

a detachable recording medium;
memory means for storing index information, including a message number
and a message position, for the first **voice/image** signal;
control information recording means for recording the index
information for the first voice/image signal on the detachable

ABSTRACT:

A . . . parallel execution of a plurality of communications with use of a plurality of data channels. The terminal apparatus comprises an **image** main **controller** and a **voice** main **controller** which can be operated independently of each other, two network controllers operated as associated with the operations of these **image** and **voice** main **controllers** respectively, two **image** transmission control circuits which are operated independently of each other, and an image file capable of storing image and voice. . .

SUMMARY:

BSUM(20) ,

The . . . operation control means for controlling operations of the key input means and the display means, voice main control means for **controlling** operation on **voice** communication, **image** main **control** means for controlling operation on **image** communication, detection means for detecting a dial number of a signal originator terminal informed from the integrated digital service line. . .

DETDESC:

DETD(4)

In . . . An image main controller 5 is provided to carry out general operational control including the transmission, reception and copy of **image** communication. A **voice** main **controller** 6 is provided to carry out general operational control on voice communication including the control of a speech circuit to. . .

DETDESC:

DETD(5)

The communication terminal apparatus of the present invention of FIG. 1 has the **image** main **controller** 5 and **voice** main **controller** 6 separately provided as well as the two network controllers 11 and 12 separately provided as associated with the respective. . .

DETDESC:

DETD(33)

Thereafter, the image main **controller** 5 and the **voice** main **controller** 6 **control** the main operations of the **image** and voice processings, that is, individually monitor and execute the start and continuation of the processing, the detection of absence. . .

DETDESC:

DETD(53)

In . . . the network controllers 11 and 12, which are provided so as to be associated with the respective operations of the **image** main **controller** 5 and the **voice** main **controller** 6, are operated independently under the control associated with the network interface 13, thereby enabling the simultaneous processing of the. . .

CLAIMS:

CLMS(1)

What . . .
control means; and
image control means for carrying out an input/output processing
operation of the image data controllably transmitted through said
image transmission **control** means,
wherein **voice** speech in response to said voice control means with
use of at least one of said plurality of network control. . .

CLAIMS:

CLMS(17)

17. . . .
of data channels of said integrated services digital line;
a second step of carrying out a first communication of voice or **image**
communication under **control** of said **voice control** means or
said **image** control means with use of said first one of said
plurality of data channels;
a third step, when a request for. . .

US PAT NO: 5,282,242 [IMAGE AVAILABLE] L2: 44 of 53

DETDESC:

DETD(4)

The . . . operations of the telephone line 2 with the opponent party,
and also control the transmitting and receiving operations of the
image data and **voice** signal. The communication **control** device
3 further includes a receiving level detection device 4, which detects
the receiving level of the image data received. . .

US PAT NO: 5,267,245 [IMAGE AVAILABLE] L2: 45 of 53

DETDESC:

DETD(27)

Next, . . . instruction of the local processor 39, as described
above. In the case of transmitting or receiving normal data such as
image data other than **voice** data, the channel **control**
switches 36 and 37 are controlled to connect the contact point B1b with
the contact point a and the contact. . .

US PAT NO: 5,261,404 [IMAGE AVAILABLE] L2: 46 of 53

DETDESC:

DETD(46)

Information . . . facilitate the assistants and nurses in their
support during the surgical procedure. The surgeon's goggles will have
the ability, under **voice** command **control**, to remove the **image**
of the anatomy and present a view through a transparent window to the
outside world. This function could be implemented. . .

US PAT NO: 5,228,112 [IMAGE AVAILABLE] L2: 47 of 53

DETDESC:

DETD(35)

15. Voice signal control of **image** field orientation.

DETDESC:

DETD(39)

19. **Voice** signal control of a recorder containing various **image** signal recording to be used in image analysis and/or pattern recognition functions defining the automatic analysis operation wherein such control. . .

US PAT NO: 5,220,559 [IMAGE AVAILABLE]

L2: 48 of 53

SUMMARY:

BSUM(6)

A neural network can be utilized for pattern recognition of a character **image**, a **voice** pattern recognition, **control** of a robot in a machine control, applications for expert systems in knowledge processing, compression and decompression of images in. . .

US PAT NO: 5,200,836 [IMAGE AVAILABLE]

L2: 49 of 53

DRAWING DESC:

DRWD(8)

FIG. 7 is a flow chart of a **control** sequence for **voice** message reproduction and image data recording in said second embodiment.

US PAT NO: 5,170,266 [IMAGE AVAILABLE]

L2: 50 of 53

ABSTRACT:

A . . . in the resolution in which the document is originally received or generated; (2) allows transmission, receipt and storage of document **image** information and speech or **voice** signals; (3) allows **control** of the destination address and route used for transmitted document and speech information, using the DTMF touch tone signaling available. . .

US PAT NO: 5,168,548 [IMAGE AVAILABLE]

L2: 51 of 53

CLAIMS:

CLMS(1)

What . . .

providing selectable sections, selection of sections being controllable by said speech recognition means thereby to generate a report text under **voice control**;

means for converting text to **image** data; and means for modulating an audio band signal with image data for facsimile transmission over telephone lines, said command. . .

US PAT NO: 5,111,103 [IMAGE AVAILABLE]

L2: 52 of 53

DETDESC:

DETD(77)

This Interactive System can be expanded to **image control** by both **voice** command and touch command making the size of an image, still or motion, and auxiliary displayed information as well as. . .

US PAT NO: 5,008,926 [IMAGE AVAILABLE]

L2: 53 of 53

SUMMARY:

In . . . messages and instructions for providing voice messages relating to such image transmissions and mass storage subsystem apparatus coupled to the control subsystem for storing **voice** and **image** transmissions. The storage is in digital form. According to a preferred embodiment of the invention, the image is stored in. . .

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(FILE 'USPAT' ENTERED AT 07:02:18 ON 18 AUG 1999)

L1 5121 S VOICE (3A) CONTROL?

L2 53 S L1 (5A) IMAGE